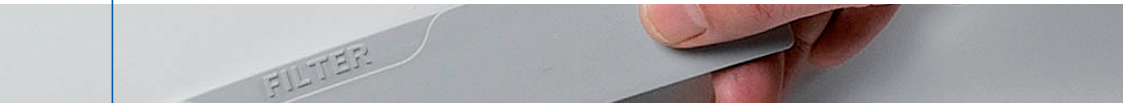


# Itho Advance Heat recovery ventilation unit

User manual



Climate for life.



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Subject to changes without notice.

No rights can be derived from this user manual.

# 1 Introduction

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Indoor air quality and energy efficiency are very important considerations in dwellings today. The Itho **Advance** Heat Recovery Ventilation Unit has been developed to meet these demands and offers controlled and better ventilation for a healthy and comfortable indoor climate in full compliance with current building regulations, while regaining the heat to an efficiency of up to 90%.

## **For the home owner or occupant:**

This document explains the working principle of the ventilation system and how to operate and maintain this unit.

## **Never switch off the ventilation, by disconnecting the power cord from the mains supply!**

(Except for service and maintenance intervals.)

## **1.1 Configuration**

The Advance has been developed for apartments and small houses with approximately 100-125 m<sup>3</sup>/h balanced exhaust and supply air volumes. It can be fitted as a wall, floor, or ceiling mounted unit for example in the space of a kitchen cupboard.

Dimensions 597 mm width x 280 mm depth x 760 mm height.

### **Note**

- Read this manual carefully.
- Failure to follow these instructions may cause an adverse effect on your health.
- Leave these instructions in the unit.

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### 1.2. Itho conditions

Itho does not accept any liability for damage caused by non-observance of the installation instructions. Service activities must exclusively be carried out by Itho or by suitably qualified competent persons using original Itho parts.



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### 1.3 Serial number, date of commissioning and scheduled service intervals

Serial number: \_\_\_\_\_

Date of commissioning: \_\_\_\_\_

Installers company name: \_\_\_\_\_

Service call telephone number: \_\_\_\_\_

Next service / filter replacement interval:

1) date \_\_\_\_\_

2) date \_\_\_\_\_

3) date \_\_\_\_\_

4) date \_\_\_\_\_

5) date \_\_\_\_\_

6) date \_\_\_\_\_

7) date \_\_\_\_\_

8) date \_\_\_\_\_

9) date \_\_\_\_\_

10) date \_\_\_\_\_

## 2 Safety

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### 2.1 General



**Always disconnect the electric power cord from the mains, before you remove the motor part!**

- Do not use this appliance for functions other than those described in this booklet.
- Never touch the appliance with wet or damp hands, or when barefoot.
- Do not store inflammable products in the neighbourhood of the unit.
- The unit is only suitable for 230 VAC/50Hz electric mains.
- Never modify the fan or electronics by yourself.
- Never plug in the power cord if the motor part is not placed into the unit.

### 2.2 Liability of the occupant / user

- Cleaning or replacement of the filters in the Advance unit at the correct time. See chapter 6.2 Maintenance.
- Cleaning the grilles in the rooms at regular intervals.

**Note:**

The grilles should always be placed back in their original location and position. If the grilles are changed or placed in a wrong position, the ventilation volumes will no longer be correct and the ventilation system might not work properly!

- Always disconnect the electric power cord when carrying out any maintenance.



**Replace the filters on time**

**Filter pollution could damage your health!**

### 3 Description controller functions

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Your Advance heat recovery unit has been equipped with a high performance heat recovery exchanger, so there is no need to reduce the air volumes in order to thermal energy. However, reducing noise and saving electricity is also an important issue.

You are able to switch the unit 3-speed:

- Low (continuous).
- Middle (extra comfort – if there are more persons in the dwelling).
- Boost (cooking and bathing).

#### 3.1 Remote speed control hard wired (supplied separately)

The speed selector switch does not require any maintenance.

Manual speed selector:

You are able to select a speed by hand:



1. Low (trickle).
2. Middle.
3. Boost.







### 3.2 Remote speed control wireless (supplied separately)

The ITHO-RFT remote controller has been equipped with a long life battery type VARTA CR2032 Li-Mn 3V. Under normal circumstances the battery life time will be approximately 10 years.

RFT-wireless remote controller:

You are able to select a speed by pushing button:



-  Low (trickle speed).
-  Middle.
-  Boost.
-  Timer function.

Every time you push the timer function button, the unit will be switched to boost speed for 10/20/30 minutes. After this time, the set speed returns automatically to the former speed.

In case the former speed was 'Boost' then the speed returns to low.

### 3.3 Frost protection

#### **Note:**

In case of very low outside temperatures for more than 24 hours, the fan motor will automatically switch off for several minutes to avoid a frozen heat exchanger! It will restart itself when the temperature has risen.

## 4 Commissioning

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The installer is responsible for commissioning the required air volumes rates for every room, in compliance with the current local regulations (for England and Wales this is the Domestic Ventilation Compliance Guide).

### 4.1 **Manual potentiometers low- and boost speed**



Do not change the manual potentiometers on the Advance unit, it has been set by the installer in accordance to the required air volumes.

### 4.2 **Middle speed**

Middle speed has been set in the controllers software by the manufacturer and cannot be changed.

# 5 Troubleshooting

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## 5.1 FAQ's

- a. The fan has been switched off unexpectedly.
  - Mains voltage failure, check the Fuse Spur or in the distribution board cabinet/meter cupboard.
  - Plug in the power cord.
  - Frost protection active, wait for 120 minutes and the fan will be switched on.
- b. The unit makes a lot of noise.
  - i. Gurgling noise coming out the unit.
    - The condensate trap below the unit has a too low water level, fill it up with water.
    - The flexible condensate hose is not completely in the condensate trap, push it deeper.
  - ii. Rattling noise coming out the unit.
    - Fan motor fault, please contact your installer or service technician.
  - iii. Swishing sound coming out of the grilles.
    - There is too much air pressure drop in the duct and grilles, clean both filters in the Advance unit and the grilles in the rooms and check if the grilles are in their original position.
- c. I want to switch off the unit at night.
  - Not possible, you also need fresh air during the night.
- d. Unpleasant smell.
  - i. I smell the cooking in the whole house.
    - Air extract rates are too low, switch on boost speed at cooking time.
    - The filters are polluted, clean or replace both filters.
    - The grilles are dirty, clean all grilles.

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- ii. Near the unit.
    - Condensate trap below the unit is empty, fill it up with water.
    - The flexible condensate hose is not completely in the condensate trap, push it in deeper.
  - iii. Near the supply air grilles.
    - The unpleasant air comes from outside, not a ventilation fault but to be sure, check and clean supply air filter.
  - e. Too much condensation in the bathroom.
    - Too low exhaust air volume, switch on boost speed while showering or bathing. Check and clean filters and grille.
  - f. Water leakage near the unit.
    - Condensate trap is clogged, clean it.
    - Condensate flexible hose is clogged or twisted, clean it and replace it into the trap.
  - g. No speed change after pushing the button on the RFT remote controller.
    - Replace the battery in the remote controller (type CR2032 Li-Mn).
  - h. If the problem persists, report the details to your installer or service technician!

## 6 Maintenance

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### 6.1 Cleaning the Advance unit outside covers

Keep the unit surface free from dust.

### 6.2 Filter replacement

For the user, maintenance is limited to cleaning and replacing the filters.

These will need to be checked annually and either cleaned or replaced.

This may differ per situation depending on environmental pollution from industry or traffic and also the activities in the house.

#### A) Remove the plastic cover



#### B) Remove the filter from the unit



#### C) Clean the filter with a vacuum cleaner



## 7 Guarantee

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### Warranty

The Advance warranty is valid for 3 years after the installation date.

### Disclaimer

This warranty does not apply to:

- Disassembly and assembly costs.
- Faults which are caused by incorrect treatment, negligence or accident.
- Faults that have been caused by repairs by third parties without authorisation from ITHO-UK Ltd.

If the appliance does not function correctly or a fault occurs, please contact your installer or service technician immediately.

Ensure that only genuine spares are used for repairs.

## This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page. There is no handwriting or other markings on the paper.

# Climate for life

Itho strives at all times to offer people an enjoyable living and working environment with its innovative solutions in climate systems. These are solutions for temperature, clean air and hot water in the domestic environment in which people and environment go

harmoniously together. We want a more comfortable and healthier living environment but at the same time, we aim for lower energy consumption. With sustainable technologies and innovations, Itho proves that seemingly opposite objectives can be combined

with very little effort. You can recognise these solutions by the Itho Living Blue label. Our aim is to develop climate systems that respect the world around us. Your wishes become our inspiration and Itho works constantly to achieve this: Climate for life.

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